



Application Number

**IDS Flag Clearance for Application 09887824**



Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
WIDS	2002-02-07	59	Y <input checked="" type="checkbox"/>	2007-06-05 12:03:47.0	CR #235743
<input type="button" value="Update"/>					

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	42	goal and student and student and invoice and loan and feedback and bussim and spreadsheet	USPAT	OR	OFF	2007/06/07 19:22
L2	54	goal and student and student and invoice and loan and feedback and bussim and spreadsheet	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/07 19:22

**USPTO PATENT FULL-TEXT AND IMAGE DATABASE**[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Bottom](#)[View Cart](#)

Searching US Patent Collection...

**Results of Search in US Patent Collection db for:****(((((goal AND student) AND student) AND invoice) AND loan) AND feedback) AND bussim)  
AND spreadsheet): 42 patents.***Hits 1 through 42 out of 42*[Jump To](#)[Refine Search](#)

goal and student and student and invoice and loan an

PAT. NO. Title

- 1 [7,194,444](#) T Goal based flow of a control presentation system
- 2 [7,156,665](#) T Goal based educational system with support for dynamic tailored feedback
- 3 [7,152,092](#) T Creating chat rooms with multiple roles for multiple participants
- 4 [7,117,189](#) T Simulation system for a simulation engine with a help website and processing engine
- 5 [7,089,222](#) T Goal based system tailored to the characteristics of a particular user
- 6 [7,065,513](#) T Simulation enabled feedback system
- 7 [7,065,512](#) T Dynamic toolbar in a tutorial system
- 8 [7,054,848](#) T Goal based system utilizing a time based model
- 9 [7,047,279](#) T Creating collaborative application sharing
- 10 [6,993,513](#) T Interactive simulations utilizing a remote knowledge base
- 11 [6,970,858](#) T Goal based system utilizing an activity table
- 12 [6,947,914](#) T Goal based educational system with support for dynamic characteristic tuning
- 13 [6,944,596](#) T Employee analysis based on results of an education business simulation
- 14 [6,782,374](#) T System, method and article of manufacturing for a runtime program analysis tool for a simulation engine
- 15 [6,745,170](#) T Goal based educational system with support for dynamic characteristic tuning
- 16 [6,658,398](#) T Goal based educational system utilizing a remediation object
- 17 [6,611,822](#) T System method and article of manufacture for creating collaborative application sharing
- 18 [6,549,893](#) T System, method and article of manufacture for a goal based system utilizing a time based model
- 19 [6,542,880](#) T System, method and article of manufacture for a goal based system utilizing a table based architecture
- 20 [6,535,861](#) T Goal based educational system with support for dynamic characteristics tuning using a spread sheet object

T

21 6,493,690 T Goal based educational system with personalized coaching

22 6,134,539 T System, method and article of manufacture for a goal based education and reporting system

23 6,125,358 T System, method and article of manufacture for a simulation system for goal based education of a plurality of students

24 6,101,489 T System, method and article of manufacture for a goal based system utilizing a time based model

25 6,085,184 T System, method and article of manufacture for a dynamic toolbar in a tutorial system

26 6,073,127 T System, method and article of manufacture for a goal based system with dynamic feedback information

27 6,067,538 T System, method and article of manufacture for a simulation enabled focused feedback tutorial system

28 6,067,537 T System, method and article of manufacture for a goal based educational system with support for dynamic personality feedback

29 6,064,998 T System, method and article of manufacture for a simulation engine with an expert system example processing engine

30 6,032,141 T System, method and article of manufacture for a goal based educational system with support for dynamic tailored feedback

31 6,029,159 T System, method and article of manufacture for a simulation enabled accounting tutorial system

32 6,029,158 T System, method and article of manufacture for a simulation enabled feedback system

33 6,029,156 T Goal based tutoring system with behavior to tailor to characteristics of a particular user

34 6,026,386 T System, method and article of manufacture for a goal based educational system with support for dynamic media control

35 6,023,692 T Goal based tutoring system with behavior to control flow of presentation

36 6,023,691 T Goal based stimulator utilizing a spreadsheet architecture

37 6,018,732 T System, method and article of manufacture for a runtime program regression analysis tool for a simulation engine

38 6,018,731 T System, method and article of manufacture for a goal based system utilizing a spreadsheet and table based architecture

39 6,018,730 T System, method and article of manufacture for a simulation engine with a help website and processing engine

40 6,016,486 T System method and article of manufacture for a goal based system utilizing an activity table

41 6,003,021 T System, method and article of manufacture for a simulation system for goal based education

42 5,987,443 T System, method and article of manufacture for a goal based educational system

[Top](#) [View Cart](#)



Welcome United States Patent and Trademark Office

Home | Login | Logout | Access Information | Help

**Search Results****BROWSE****SEARCH****IEEE Xplore GUIDE**

Results for "((goal and student and student and invoice and loan and feedback and bussim and spreadsheet)&lt;in&amp;gt;..."

e-mail

Your search matched 0 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance in Descending order**.» **Search Options**[View Session History](#)[Modify Search](#)[New Search](#)

((goal and student and student and invoice and loan and feedback and bussim and sp

  Check to search only within this results set» **Key**Display Format:  Citation  Citation & Abstract

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

No results were found.

IET CNF IET Conference Proceeding

Please edit your search criteria and try again. Refer to the Help pages if you need assistance revising your search

IEEE STD IEEE Standard

[Help](#) [Contact Us](#) [Privacy](#)

© Copyright 2006 IE

Indexed by  
 Inspec®


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
 The ACM Digital Library  The Guide

goal and student and student and invoice and loan and feedback

THE ACM DIGITAL LIBRARY

[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

## Terms used

goal and student and student and invoice and loan and feedback and bussim and spreadsheetFound  
25,061 of  
201,890

Sort results by relevance

 [Save results to a Binder](#)
[Try an Advanced Search](#)

Display results expanded form

 [Search Tips](#)
[Try this search in The ACM Guide](#)
 [Open results in a new window](#)

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Relevance scale

Best 200 shown

1 [The systems analyst encounters quality management](#)

Janis Rogainis  
October 1994 **Proceedings of the 22nd annual ACM SIGUCCS conference on User services SIGUCCS '94**  
Publisher: ACM Press  
Full text available: pdf(837.38 KB) Additional Information: [full citation](#), [index terms](#)

2 [FRA: using a goal-based scenario to teach financial statement analysis](#)

David A. Foster  
April 1994 **Proceedings of the 1994 ACM symposium on Applied computing SAC '94**  
Publisher: ACM Press  
Full text available: pdf(543.60 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** financial accounting education, intelligent tutoring systems, learning by doing

3 [Teaching real-world analysis skills with a goal-based scenario](#)

David A. Foster  
July 1996 **Proceedings of the 1996 international conference on Learning sciences ICLS '96**  
Publisher: International Society of the Learning Sciences  
Full text available: pdf(457.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper introduces a software architecture useful for teaching a particular class of real-world analysis tasks. It is based on a kind of teaching framework called a goal-based scenario, a "learning by doing" environment in which the student acts in a realistic role and obtains helpful coaching while performing assigned tasks. I describe a fully operational prototype system, Financial Report Analyst (FRA), which was built using this architecture. In FRA, the student learns skills in financial ...

4 [Computing curricula 2001](#)

September 2001 **Journal on Educational Resources in Computing (JERIC)**  
Publisher: ACM Press  
Full text available: pdf(613.63 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

 [html\(2.78 KB\)](#)

## **5 Reducing lecture and increasing student activity in large computer science courses**

 Roy P. Pargas

June 2006 **ACM SIGCSE Bulletin , Proceedings of the 11th annual SIGCSE conference on Innovation and technology in computer science education ITICSE '06,**

Volume 38 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(576.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes how one instructor uses a web-based tool called *MessageGrid* in a laptop-enhanced computer science course to accomplish five goals: (1) to solicit questions from students regarding pre-lecture reading assignments, (2) to engage the students in classroom activity that supports the lecture material for the day, (3) to conduct short, frequent assessments of student comprehension, (4) to conduct exercises that encourage peer-learning, and (5) to use *Ink*-based softwa ...

**Keywords:** CS education research, classroom management, courseware, multimedia, pedagogy

## **6 Software testing: An empirical evaluation of a testing and debugging methodology for**

 [Excel](#)

Jeffrey Carver, Marc Fisher, Gregg Rothermel

September 2006 **Proceedings of the 2006 ACM/IEEE international symposium on International symposium on empirical software engineering ISESE '06**

**Publisher:** ACM Press

Full text available:  [pdf\(561.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Spreadsheets are one of the most commonly used types of programs in the world, and it is important that they be sufficiently dependable. To help end users who create spreadsheets do so more reliably, we have created a testing and debugging methodology and environment for use in spreadsheets, known as the WYSIWYT methodology. Our prior experiments with WYSIWYT show that users can utilize it to ensure that their spreadsheets are more dependable, but these experiments to date have considered only a ...

**Keywords:** empirical study, end-user software engineering, human subjects

## **7 Research papers: reverse engineering & refactoring: Inferring templates from**

 [spreadsheets](#)

Robin Abraham, Martin Erwig

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

**Publisher:** ACM Press

Full text available:  [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a study investigating the performance of a system for automatically inferring spreadsheet templates. These templates allow users to safely edit spreadsheets, that is, certain kinds of errors such as range, reference, and type errors can be provably prevented. Since the inference of templates is inherently ambiguous, such a study is required to demonstrate the effectiveness of any such automatic system. The study results show that the system considered performs significantly better tha ...

**Keywords:** end-user software engineering, spreadsheet specification, template inference

**8 A Study of Computer Science Students' Ethical Attitudes and Its Implications to**

 Tero Vartiainen

September 2003 **ACM SIGCAS Computers and Society**, Volume 33 Issue 3

**Publisher:** ACM Press

Full text available:  [.html\(171.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#)

 [.htm\(457.45 KB\)](#)

In this study I investigated 198 Finnish computer science students' attitudes concerning computer usage and professional practice in computing to determine content for computer ethics education. Students were to analyse acceptability of individuals' behaviour in 23 cases. It is postulated that divergence of attitudes in cases lead students to present opposing viewpoints during small group discussions and thus to develop moral sensitivity and judgment in students. The following issues ...

**9 Hands-on microcomputer training**

 Bill Brown, Marilyn Everingham

September 1985 **Proceedings of the 13th annual ACM SIGUCCS conference on User services: pulling it all together SIGUCCS '85**

**Publisher:** ACM Press

Full text available:  [.pdf\(2.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Hands-on microcomputer training presents computer educators with a new set of opportunities and challenges. The opportunity for participants to interact with the machine and software in the presence of instructors markedly decreases the struggle many new computer users experience. Questions can be answered and instruction can be generalized in the context of actual problems encountered by participants. Our curriculum has included the basic operation of microcomputers and a variety of software ...

**10 Automated testing of databases and spreadsheets - the long and the short of it**

 C. Simon, Peter Summons

December 2000 **Proceedings of the Australasian conference on Computing education ACSE '00**

**Publisher:** ACM Press

Full text available:  [.pdf\(495.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Our introductory Information System subjects include the teaching and assessment of skills in word processing, spreadsheets, and databases. Having made pleasing progress with the automated generation and marking of the spreadsheet tests, we found that our move to automate the database testing highlighted some important distinctions between the two. In essence, spreadsheet testing is comparable to short-answer test and database to long-answer test, which require a markedly different approach. < ... >

**11 Knowing where "here" is: a study of current student computing resources at the**

 University of Washington

Nancy Bixler

November 1995 **Proceedings of the 23rd annual ACM SIGUCCS conference on User services: winning the networking game SIGUCCS '95**

**Publisher:** ACM Press

Full text available:  [.pdf\(441.26 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

**12 An example of management training in expert systems: SBA loan evaluation system**

 Sudesh M. Duggal, Paul R. Popovich

September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems SIGBDP '90**

**Publisher:** ACM Press

Full text available:  [.pdf\(2.19 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

13 Self

 David Ungar, Randall B. Smith

June 2007 **Proceedings of the third ACM SIGPLAN conference on History of programming languages HOPL III**

**Publisher:** ACM Press

Full text available:  pdf(1.70 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The years 1985 through 1995 saw the birth and development of the language Self, starting from its design by the authors at Xerox PARC, through first implementations by Ungar and his graduate students at Stanford University, and then with a larger team formed when the authors joined Sun Microsystems Laboratories in 1991. Self was designed to help programmers become more productive and creative by giving them a simple, pure, and powerful language, an implementation that combined ease of use with ...

**Keywords:** Self, adaptive optimization, cartoon animation, dynamic language, dynamic optimization, exploratory programming, history of programming languages, morphic, object-oriented language, programming environment, prototype-based programming language, virtual machine

14 Visualization technologies as a tool for science education (panel session)

 Robert Sherman Wolff, Dan Sandin, Paul Trunfio, Larry Yaeger, Paul Hickman

August 1990 **ACM SIGGRAPH 90 Panel Proceedings SIGGRAPH '90**

**Publisher:** ACM Press

Full text available:  pdf(3.09 MB) Additional Information: [full citation](#), [index terms](#)

15 Educating a new engineer

 Peter J. Denning

December 1992 **Communications of the ACM**, Volume 35 Issue 12

**Publisher:** ACM Press

Full text available:  pdf(10.14 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

16 Business process re-design in the academic environment: a methodical approach to maximizing the impact of scarce information technology support resources

 Roger W. Harris

November 1993 **Proceedings of the 21st annual ACM SIGUCCS conference on User services SIGUCCS '93**

**Publisher:** ACM Press

Full text available:  pdf(2.06 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

17 Education papers: advanced topics in software engineering education: Engineering the software requirements of nonprofits: a service-learning approach

 Shankar Venkatagiri

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

**Publisher:** ACM Press

Full text available:  pdf(254.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper is a cross-study of service-learning projects executed by student groups in a 10-week course on software engineering. The principal benefits of service-learning are demonstrated by the groups in this setting. The course is structured to support the project activities; timely brainstorming and negotiation roleplay exercises help the teams arrive at pragmatic baselines with their clients. The study highlights overlaps in the software requirements of nonprofits. The paper apprises the re ...

**Keywords:** NGO, brainstorm, negotiation, nonprofit, requirements, service-learning, software engineering

**18 Visualizing geospatial data**

 Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne  
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available:  pdf(14.01 MB) Additional Information: [full citation](#), [abstract](#)

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include: • Rudimentary: minimal data sharing between the GIS and Vis systems • Operational: consistency of geospatial data • Functional: transparent communication between the GIS and Vis systems • Merged: one comprehensive toolkit environmentW ...

**19 Risks to the public in computers and related systems**

 Peter G. Neumann  
April 1993 **ACM SIGSOFT Software Engineering Notes**, Volume 18 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

**20 Testing and analysis: Automatic generation and maintenance of correct spreadsheets**

 Martin Erwig, Robin Abraham, Irene Cooperstein, Steve Kollmansberger  
May 2005 **Proceedings of the 27th international conference on Software engineering ICSE '05 , Proceedings of the 27th international conference on Software engineering ICSE '05**

**Publisher:** ACM Press, IEEE Computer Society

Full text available:  pdf(272.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
 [Publisher Site](#)

Existing spreadsheet systems allow users to change cells arbitrarily, which is a major source of spreadsheet errors. We propose a system that prevents errors in spreadsheets by restricting spreadsheet updates to only those that are logically and technically correct. The system is based on the concept of templates that describe the principal structure of the initial spreadsheet and all of its future versions. We have developed a program generator that translates a template into an initial spreads ...

**Keywords:** end-user software engineering, error prevention, program generation, spreadsheet, template, type system

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc.  
[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)

## Terms used

goal and student and student and invoice and loan and feedback and bussim and spreadsheetFound  
25,061 of  
201,890Sort results  
by
 relevance 
 [Save results to a Binder](#)[Try an Advanced Search](#)Display  
results
 expanded form 
 [Search Tips](#)[Try this search in The ACM Guide](#) [Open results in a new window](#)

Results 21 - 40 of 200

Result page: [previous](#)[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)Relevance scale 

Best 200 shown

**21 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona** Thomas Haigh**January 2006 ACM Oral History interviews****Publisher:** ACM PressFull text available:  [pdf\(761.66 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

**22 Implementing SAP R/3 at the University of Nebraska**

Tim Sieber, Keng Siau, Fiona Nah, Michelle Sieber

**January 1999 Proceeding of the 20th international conference on Information Systems ICIS '99****Publisher:** Association for Information SystemsFull text available:  [pdf\(695.87 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)**23 Illustrative risks to the public in the use of computer systems and related technology** Peter G. Neumann**January 1996 ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(2.54 MB\)](#) Additional Information: [full citation](#)**24 Evolutionary programming techniques for testing students' code** Cara MacNish**December 2000 Proceedings of the Australasian conference on Computing education ACSE '00****Publisher:** ACM PressFull text available:  [pdf\(506.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Tools for analysing student code offer great potential for enhancing student learning through informing both students and staff. One such tool, the datlab system, has been successfully employed in second year data structures courses and provides facilities for



29 A pen-based paperless environment for annotating and marking student assignments 

Beryl Plimmer, Paul Mason

January 2006 **Proceedings of the 7th Australasian User interface conference - Volume 50 AUIC '06**

**Publisher:** Australian Computer Society, Inc.

Full text available:  pdf(446.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A paperless environment for annotating student assignments is appealing to teachers and students. However, to do this, while retaining the richness and ease of annotating the work with a red pen, has not been possible until recently. This project presents an annotation problem that requires digital annotation, and additionally functionality to properly support the user requirements to move efficiently between assignments, and simultaneously annotate and record marks for the assignment. With Penmar ...

**Keywords:** annotation, online marking, paperless environment, pen-based interaction

30 Training teachers to use information technology to support integrated instruction: what teacher trainers learned from their students 

Gerald G. Mansergh, Marilyn V. Nelson, Charles D. Swanson

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '98**

**Publisher:** IEEE Computer Society

Full text available:  html(41.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

For three years, teams of Minnesota science, mathematics and technology teachers learned to use computational science in *Envision It!* under a National Science Foundation grant. Two cadres of middle, junior high and high school teachers participated in intensive summer institutes, school-year follow-up sessions and electronic networking. The instructional design and delivery team for *Envision It!* was a powerful collaboration of professionals from non-profit and for-profit organizatio ...

**Keywords:** computational, computer, curriculum, lessons, math, modeling, science, teacher

31 Columns: Risks to the public in computers and related systems 

 Peter G. Neumann

January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(3.24 MB) Additional Information: [full citation](#)

32 Selected writings on computing: a personal perspective 

Edsger W. Dijkstra

January 1982 Book

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(60.98 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

33 Level II technical support in a distributed computing environment 

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96**

**Publisher:** ACM Press

Full text available:  pdf(5.73 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

34 Assessing data quality in accounting information systems

 David Kaplan, Ramayya Krishnan, Rema Padman, James Peters

February 1998 **Communications of the ACM**, Volume 41 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(249.94 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

35 Illustrative risks to the public in the use of computer systems and related technology

 Peter G. Neumann

January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(1.65 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

36 Simulation education: simulation as a tool for teaching supply chain concepts:

Combining hands-on, spreadsheet and discrete event simulation to teach supply chain management

Jeffrey Adams, Jerry Flatto, Leslie Gardner

December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**

**Publisher:** Winter Simulation Conference

Full text available:  pdf(309.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes the effect of combining hands-on simulation with spreadsheets and discrete event simulations. These tools enhance the student learning process of supply chain management principles. Active, hands-on learning is one of the most effective types of learning but is very time consuming. Supplementing it with computer simulation enhances the hands-on learning to cover more material in less time making an efficient and effective learning experience.

37 An alternative culminating experience for master's students in computer science

 James C. McKim, Timothy O. Martyn, Roger H. Brown, Michael M. Danchak, Kathleen L.

Farrell, C. William Higginbotham, Irina S. Ilovic, Brian J. McCartin, J. Peter Matelski

March 1991 **ACM SIGCSE Bulletin , Proceedings of the twenty-second SIGCSE technical symposium on Computer science education SIGCSE '91**, Volume 23 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(721.25 K) Additional Information: [full citation](#), [references](#), [index terms](#)

38 Making connections: first year transition for computer science and software engineering students

Alistair Moffat, Baden Hughes, Harald Søndergaard, Paul Gruba

January 2005 **Proceedings of the 7th Australasian conference on Computing education - Volume 42 ACE '05**

**Publisher:** Australian Computer Society, Inc.

Full text available:  pdf(143.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

During the last decade, an increasing emphasis has been placed on the need for carefully planned transition programs to help first-year students integrate into university. In this

paper we critically examine our experiences in designing and running successive transition programs for Computer Science and Software Engineering students. Over the last three years we have trialled several models. At present, our program requires all entering students to be enrolled in a transition subject, "Making Co ...

## 39 Automated assessment and marking of spreadsheet concepts



Peter Summons, Jo Coldwell, Christine Bruff, Frans Henskens

July 1997 **Proceedings of the 2nd Australasian conference on Computer science education ACSE '97**

Publisher: ACM Press

Full text available:  pdf (1.17 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 40 What is your software worth?



 Gio Wiederhold

September 2006 Communications of the ACM, Volume 49 Issue 9

Publisher: ACM Press

Full text available:  pdf(333.71 KB)

html(893.00  
bytes)

Additional Information: full citation, abstract, references, index terms

By applying well-known principles of intellectual property valuation, sales expectations, growth of maintained software, discounting to present value, and the like, a method is presented for valuing software based on the income that use of the software is expected to generate in the future.

Results 21 - 40 of 200

Result page: [previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  Adobe Acrobat  QuickTime  Windows Media Player  Real Player


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
 The ACM Digital Library  The Guide


**THE ACM DIGITAL LIBRARY**
[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used

goal and student and student and invoice and loan and feedback and bussim and spreadsheet
 Found  
 25,061 of  
 201,890
Sort results  
by

relevance

 [Save results to a Binder](#)
[Try an Advanced Search](#)
Display  
results

expanded form

 [Search Tips](#)
[Try this search in The ACM Guide](#)
 [Open results in a new window](#)

Results 41 - 60 of 200

Result page: [previous](#) [1](#) [2](#) **3** [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scale

#### 41 [The student record book: showing the value of documentation](#)

Robyn Gibson

**June 2002 ACM SIGCSE Bulletin , Proceedings of the 7th annual conference on Innovation and technology in computer science education ITiCSE '02,**

Volume 34 Issue 3

**Publisher:** ACM PressFull text available: [pdf\(182.89 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Students in an introductory programming subject are encouraged to keep a record book of their activities. By the end of semester many have come to realise, almost to their surprise, that documentation is useful. The encouragement includes the use of "carrots" and "sticks".

#### 42 [Information systems outsourcing: a survey and analysis of the literature](#)

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4**Publisher:** ACM PressFull text available: [pdf\(1.51 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

**Keywords:** determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

#### 43 [Fostering interest in information technology: running a vacation school for pre-University students](#)

Helen Purchase, Andrew Hussey, Wayne Brookes, David Leadbetter

**July 1997 Proceedings of the 2nd Australasian conference on Computer science education ACSE '97**
**Publisher:** ACM PressFull text available: [pdf\(959.12 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

44 Simulation education: Introductory teaching of simulation: teaching discrete event simulation to business students: the alpha and omega

Richard G. Born

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation WSC '03**

**Publisher:** Winter Simulation Conference

Full text available:  [pdf\(648.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Managers of businesses worldwide are only beginning to realize the economic and improved decision-making value of discrete-event simulation. In order to accelerate the rate at which business managers employ simulation, such a course needs to be taught to more business students than is currently being done. This, in turn, implies the need for an improvement in the teaching of simulation to beginners, so that these fledglings will encourage fellow students to take a course in simulation because ...

45 Spreadsheets and databases—alternatives to programming for non-computer

 science majors

M. Gene Bailey

February 1987 **ACM SIGCSE Bulletin , Proceedings of the eighteenth SIGCSE technical symposium on Computer science education SIGCSE '87**, Volume 19 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(484.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Microcomputers have become easier and easier to use an emphasis is placed on software design for users with little or no experience. With a minimal amount of training, students or employees can become productive. Yet, academic programs still teach programming as a fundamental part of computer literacy. This paper proposes that the programming portion of the class be eliminated and replaced with a study of spreadsheets and databases. The paper discusses the manner in which spreadsheet and da ...

46 On automated message processing in electronic commerce and work support

 systems: speech act theory and expressive felicity

Steven O. Kimbrough, Scott A. Moore

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(502.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meanings and contents of, the messages they process. Given that natural language understanding is not a practicable alternative, there remain three approaches to delivering systems with semant ...

**Keywords:** electronic commerce, formal language for business communication, speech act theory

47 Resources, tools, and techniques for problem based learning in computing

 Ainslie Ellis, Linda Carswell, Andrew Bernat, Daniel Deveaux, Patrice Frison, Veijo Meisalo, Jeanine Meyer, Urban Nulden, Jozef Rugej, Jorma Tarhio

December 1998 **Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE conference on Integrating technology into computer science education ITiCSE-WGR '98**

**Publisher:** ACM Press

Full text available:  [pdf\(69.36 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

◆ A goal-oriented approach to laboratory development and implementation

Brenda C. Parker, John D. McGregor

March 1995 **ACM SIGCSE Bulletin , Proceedings of the twenty-sixth SIGCSE technical symposium on Computer science education SIGCSE '95**, Volume 27 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(534.38 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

◆ **49 ITiCSE 2002 working group report: Information technology fluency in practice**

John P. Dougherty, Tom Dececcchi, Tony Clear, Brad Richards, Stephen Cooper, Tadeusz Wilusz

June 2002 **ACM SIGCSE Bulletin , Working group reports from ITiCSE on Innovation and technology in computer science education ITiCSE-WGR '02**, Volume 35 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(360.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent work has stressed the importance of fluency with information technology (IT) in the modern world. This report presents a set of context profiles that detail courses and programs to realize increased IT fluency across a small sampling of academic institutions. The goal is to provide some representative examples for other schools interested in addressing the issues associated with IT fluency.

**Keywords:** FITness, IT concepts, IT fluency, computer applications, context profiles, education, intellectual capabilities, non-majors

◆ **50 Resources, tools, and techniques for problem based learning in computing**

Ainslie Ellis, Linda Carswell, Andrew Bernat, Daniel Deveaux, Patrice Frison, Veijo Meisalo,

Jeanine Meyer, Urban Nulden, Jozef Rugelj, Jorma Tarhio

October 1998 **ACM SIGCUE Outlook**, Volume 26 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(1.49 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In a problem-based learning (PBL) environment, students work in groups on real-life problems and have the opportunity to determine for themselves what they need to learn in the relevant subject area(s). A common feature of problem-based learning is to provide students with a range of resources that assist them in solving the problems. This paper attempts to classify resources according to the educational functions and activities for which they will be used. It also discusses communication pattern ...

◆ **51 Using model dataflow graphs to reduce the storage requirements of constraints**

Bradley T. Vander Zanden, Richard Halterman

September 2001 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 8 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Dataflow constraints allow programmers to easily specify relationships among application objects in a natural, declarative manner. Most constraint solvers represent these dataflow relationships as directed edges in a dataflow graph. Unfortunately, dataflow graphs require a great deal of storage. Consequently, an application with a large number of constraints can get pushed into virtual memory, and performance degrades in interactive applications. Our solution is based on the observation that obj ...

**Keywords:** Class-instance model, dataflow constraints, graphical interfaces, language design and implementation, programming environments, prototype-instance model, storage optimization

52 **Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)**

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(6.19 MB) Additional Information: [full citation](#), [index terms](#)

53 **Students teaching students: incorporating presentations into a course**

 Douglas D. Dankel, Jonathan Ohlrich

March 2007 **ACM SIGCSE Bulletin, Proceedings of the 38th SIGCSE technical symposium on Computer science education SIGCSE '07**, Volume 39 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(218.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the structure of a new elective course at the University of Florida, Artificial Intelligence in Computer Games, which addresses not only the technical aspects of creating realism within computer games, but also the need for more experiences in oral communication. Key elements of this course include the students conducting a majority of the teaching and actively participating in evaluating each other.

**Keywords:** classroom management, communication skills, course pedagogy, curriculum issues

54 **Use of laboratories in computer science education: guidelines for good practice: report of the working group on computing laboratories**

 Deborah Knox, Ursula Wolz, Daniel Joyce, Elliot Koffman, Joan Krone, Atika Laribi, J. Paul Myers, Viera K. Proulx, Kenneth A. Reek

June 1996 **ACM SIGCSE Bulletin, ACM SIGCUE Outlook, Proceedings of the 1st conference on Integrating technology into computer science education ITiCSE '96**, Volume 28, 24 Issue SI, 1-3

**Publisher:** ACM Press

Full text available:  pdf(1.88 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

55 **SIVIL: a true visual programming language for students**

Timothy F. Materson, R. Mark Meyer

April 2001 **Journal of Computing Sciences in Colleges, Proceedings of the sixth annual CCSC northeastern conference on The journal of computing in small colleges CCSC '01**, Volume 16 Issue 4

**Publisher:** Consortium for Computing Sciences in Colleges

Full text available:  pdf(417.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses the advantages and disadvantages of using SIVIL (SImple VIual Language), a new visual programming language in development at Canisius College, to teach novice programmers to think more deeply about programming. In consideration of how SIVIL meets its goal of making programming easier for beginners, the paper will look at Bloom's Taxonomy, specifically at Bloom's levels of learning and how a visual language might aid or speed up the learning curve for students endeavoring ...

56 **Gatekeepers in the action structure of software contracting: a case study of the evolution of user-developer relationships**

 Ari Heiskanen, Jouni Similä

November 1992 **ACM SIGCPR Computer Personnel**, Volume 14 Issue 1-2

**Publisher:** ACM Press

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The case study history of the cooperation between a software house and its client over a time span of 6 years is analyzed through the metaphor of the gatekeeper role. The analysis shows that, contrary to earlier research employing the gatekeeper metaphor, the gatekeeper role in software development work is not stable but changes considerably over time both from the point of view of the software house and the client. Moreover, there seem to be typical recurrent patterns of change for the gatekeep ...

57 Gatekeepers in the action structure of software contracting: a case study of the evolution of user-developer relationships 

 Ari Heiskanen, Jouni Similä

May 1992 **Proceedings of the 1992 ACM SIGCPR conference on Computer personnel research SIGCPR '92**

**Publisher:** ACM Press

Full text available:  pdf(1.39 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

58 WYSIWYT testing in the spreadsheet paradigm: an empirical evaluation 

 Karen J. Rothermel, Curtis R. Cook, Margaret M. Burnett, Justin Schonfeld, T. R. G. Green, Gregg Rothermel

June 2000 **Proceedings of the 22nd international conference on Software engineering ICSE '00**

**Publisher:** ACM Press

Full text available:  pdf(349.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Is it possible to achieve some of the benefits of formal testing within the informal programming conventions of the spreadsheet paradigm? We have been working on an approach that attempts to do so via the development of a testing methodology for this paradigm. Our "What You See Is What You Test" (WYSIWYT) methodology supplements the convention by which spreadsheets provide automatic immediate visual feedback about values by providing automatic immediate visual feedback about &ld ...

**Keywords:** empirical studies, spreadsheets, testing, visual programming

59 Get high school students hooked on science with a challenge 

 M. Cohen, M. Foster, D. Kratzer, P. Malone, A. Solem

March 1992 **ACM SIGCSE Bulletin , Proceedings of the twenty-third SIGCSE technical symposium on Computer science education SIGCSE '92**, Volume 24 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(604.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Skilled scientists and engineers along with a public that understands science and technology are vital in today's technically competitive world. The United States must encourage its students to study and excel in scientific academic subjects and consider science and engineering as a possible career. An academic program that progresses from a statewide to a national competition is a way of developing science and computing knowledge among high school students and teachers, as well ...

60 Tutorial: The basics of e-learning: an excerpt from handbook of human factors in web design 

 Lisa Neal, Diane Miller

August 2005 **eLearn**, Volume 2005 Issue 8

**Publisher:** ACM Press

Full text available:  html(121.89 KB) Additional Information: [full citation](#), [index terms](#)

 Publisher Site

Results 41 - 60 of 200

Result page: [previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)

Google

+goal +student +student +invoice +loan +feed  Advanced Search Preferences

Web Results 1 - 6 of 6 for +goal +student +student +invoice +loan +feedback +bussim +spreadsheet (0)

**Goal based educational system with support for dynamic ...**

A framework-based approach for building **BusSim** applications is ..... [0102] The **goal** of **feedback** is to help a **student** complete a business deliverable. ...

[www.freepatentsonline.com/20040215587.html](http://www.freepatentsonline.com/20040215587.html) - 161k - [Cached](#) - [Similar pages](#)

**Goal based educational system with support for dynamic tailored ...**

A system is disclosed that provides a **goal** based learning system utilizing ... actions performed by the **student** and **feedback** that the **student** is presented. ...

[freepatentsonline.com/7156665.html](http://freepatentsonline.com/7156665.html) - 192k - Supplemental Result - [Cached](#) - [Similar pages](#)

[ More results from [freepatentsonline.com](http://freepatentsonline.com) ]

**Goal based system utilizing an activity table - US Patent 6970858**

A typical **BusSim** engagement takes between one and two years to complete ..... The **goal** of **feedback** is to help a **student** complete a business deliverable. ...

[www.patentstorm.us/patents/6970858-description.html](http://www.patentstorm.us/patents/6970858-description.html) - 199k - [Cached](#) - [Similar pages](#)

**Goal based educational system with support for dynamic tailored ...**

... progress toward the training **goal** and providing **feedback** to the **student** that ... design and test **feedback** in relation to a Microsoft Excel **spreadsheet** ...

[www.patentmonkey.com/PM/patentid/7156665.aspx](http://www.patentmonkey.com/PM/patentid/7156665.aspx) - 250k - Supplemental Result - [Cached](#) - [Similar pages](#)

**System, method and article of manufacture for a goal based ...**

A dynamic **feedback** system is utilized that provides reports on **student** ..... that the **goal** of the **student** in a specific task is to journalize **invoice** ...

[www.wipatents.com/6134539.html](http://www.wipatents.com/6134539.html) - 586k - [Cached](#) - [Similar pages](#)

**System, method and article of manufacture for a goal based ...**

Substantive, useful **feedback** is a critical piece of any **BusSim** application. It is the main mechanism to communicate if actions taken by the **student** are ...

[www.wipatents.com/5987443.html](http://www.wipatents.com/5987443.html) - 496k - [Cached](#) - [Similar pages](#)

[ More results from [www.wipatents.com](http://www.wipatents.com) ]

*In order to show you the most relevant results, we have omitted some entries very similar to the 6 already displayed.*

*If you like, you can [repeat the search with the omitted results included](#).*

Try [Google Desktop](#): search your computer as easily as you search the web.

+goal +student +student +invoice +lo

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#)

